

# Product Datasheet

## MT-ND4 Antibody - BSA Free NBP2-47365

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 6

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
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Updated 12/2/2025 v.20.1

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**NBP2-47365**

MT-ND4 Antibody - BSA Free

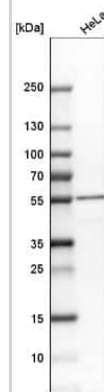
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit MT-ND4 Antibody - BSA Free (NBP2-47365) is a polyclonal antibody validated for use in IHC and WB. Anti-MT-ND4 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4538
Gene Symbol	ND4
Species	Human
Immunogen	This antibody was developed against a recombinant protein corresponding to amino acids: LANSNYERTHSRIIILSQGLQT

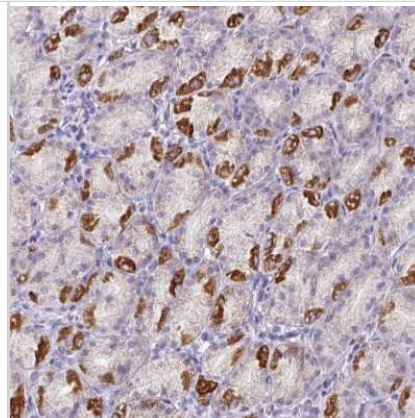
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:20 - 1:50, Immunohistochemistry-Paraffin 1:20 - 1:50
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

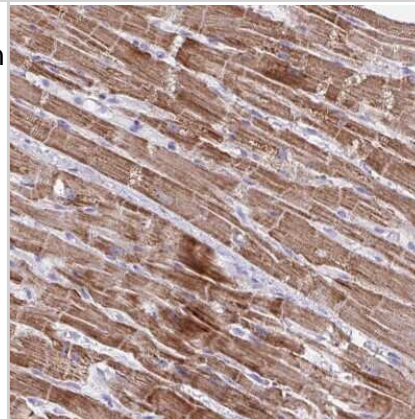
Western Blot: MT-ND4 Antibody [NBP2-47365] - Analysis in human cell line HeLa.



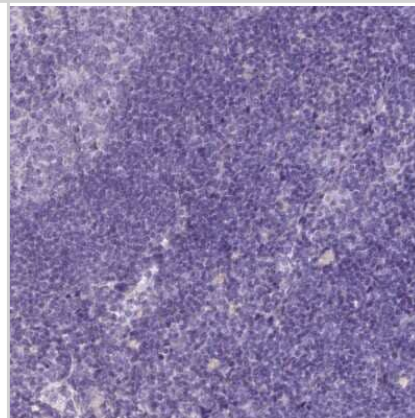
Immunohistochemistry-Paraffin: MT-ND4 Antibody [NBP2-47365] - Staining of human Stomach shows strong granular cytoplasmic positivity in enteroendocrine cells.



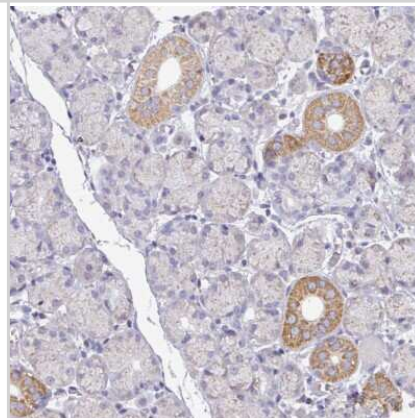
Immunohistochemistry-Paraffin: MT-ND4 Antibody [NBP2-47365] - Staining of human heart muscle shows moderate cytoplasmic positivity in myocytes.



Immunohistochemistry-Paraffin: MT-ND4 Antibody [NBP2-47365] - Staining of human Lymph node shows very weak granular cytoplasmic positivity in non-germinal center cells.



Immunohistochemistry-Paraffin: MT-ND4 Antibody [NBP2-47365] - Staining of human Salivary gland shows moderate granular cytoplasmic positivity in glandular cells.



## Publications

Jia Z, Meng F, Chen H et al. Human TRUB1 is a highly conserved pseudouridine synthase responsible for the formation of psi 55 in mitochondrial tRNAAsn, tRNAGln, tRNAGlu and tRNAPro Nucleic acids research 2022-08-26 [PMID: 36018806] (WB, Human)

Igelmann S, Lessard F, Uchenunu O et al. A hydride transfer complex reprograms NAD metabolism and bypasses senescence Molecular cell 2021-09-16 [PMID: 34547241]

Ji Y, Nie Z, Meng F et al. Mechanistic insights into mitochondrial tRNAAla 3'-end metabolism deficiency The Journal of biological chemistry 2021-05-20 [PMID: 34023389] (WB, Human)

Meng F, Zhou M, Xiao Y, et al. A deafness-associated tRNA mutation caused pleiotropic effects on the m1G37 modification, processing, stability and aminoacylation of tRNAIle and mitochondrial translation Nucleic acids research 2021-01-25 [PMID: 33398350] (WB, Human)

Fan W, Zheng J, Kong W et al. Contribution of a mitochondrial tyrosyl-tRNA synthetase mutation to the phenotypic expression of the deafness-associated tRNASer(UCN) 7511AG mutation J. Biol. Chem. 2019-11-04 [PMID: 31685661] (WB, Human)

Zhao X, Cui L, Xiao Y et al. Hypertension-associated mitochondrial DNA 4401A>G mutation caused the aberrant processing of tRNAMet, all 8 tRNAs and ND6 mRNA in the light-strand transcript Nucleic Acids Research 2019-08-28 [PMID: 31504769] (WB, Human)





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-47365**

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NBP2-47365PEP	MT-ND4 Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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